

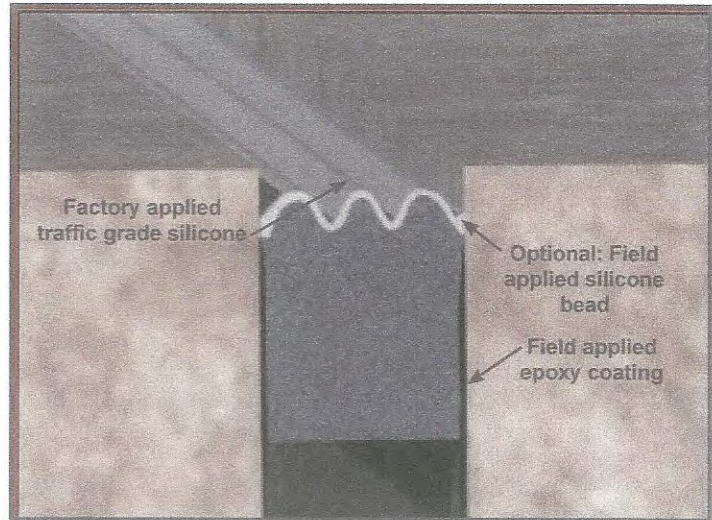
# Polytite® 50N

**Pre-compressed Joint Sealant,  
High Density, Polyurethane Foam,  
Waterproofs Horizontal Applications.**

**PRIMARY USES**  
Road and Bridge Joints  
Horizontal Expansion Joints  
Parking Structure Expansion Joints

## PRODUCT DESCRIPTION

- Polytite® 50N is a premium quality joint sealant composed of a high density, open micro-cell polyurethane foam impregnated with a hydrophobic polymer sealing compound.
  - Developed to meet the high performance needs of state and federal DOT projects.
  - Provides a waterproof, dustproof, airtight, UV stable, chemically resistant, soundproof and insulated urethane primary seal.
  - Works under its own constant internal pressure to provide a permanent, watertight seal eliminating costly water damage, as well as allowing for a greater degree of joint movement.
  - Once Polytite® 50N is installed in the joint, the material expands depending on temperature, adapting to the width of the joint and the irregularities of the substrate provided such profile changes are not sudden or extreme.
  - Developed to meet all applicable standards for pre-compressed sealants.
  - Permanently resilient; The material will expand and contract with the movement of the joint under any weather condition.
  - Standard Color: Gray
- Available Sizes (Joint Width)  
\*Sticks: 1/2" to 4"  
\*(Custom sizes available upon request)



## ADVANTAGES

- Can accommodate rapid rates of joint movement
- Supplied in pre-compressed state for ease of installation
- Excellent compression recovery
- Permanently conforms to varying joint contours
- Used for joints up to 4" wide
- Allows for up to 100% ( $\pm 50\%$ ) movement from mean joint size
- Consistent depth of product
- Not based on asphaltic or bitumastic impregnation
- Resilient and flexible to  $-40^{\circ}\text{F}$  (long term)

## PRIMARY APPLICATIONS

- Horizontal movement - expansion, control, and isolation joints
- Road and bridge joints
- Parking garages
- Retrofit joints
- Plaza decks
- Other joints requiring a watertight seal

# Polytite® 50N

## SPECIFICATION

Sealant shall be Polytite® 50N as manufactured by Schul International Company, LLC, 800-848-1120. Sealant shall be a high density, open micro-cell polyurethane foam impregnated with a waterproof polymer sealing compound. Polytite® 50N shall be installed in the joint in a pre-compressed state and after expansion shall provide a watertight joint. When compressed to 50% of its fully expanded size, Polytite® 50N must provide a weatherproof joint. The manufacturer shall furnish a Certificate of Compliance with these requirements.

## TEST DATA

Thermal Resistance	ASTM C518	3.3 hr-°F-ft <sup>2</sup> /Btu
UV Resistance		Excellent
Density		10 lb/cu. ft. (160kg/m <sup>3</sup> )
Temperature Stability Range		-40°F to 185°F
Resistance to Compression Set	ASTM 3574	Max 2.5%
Shear Strength		Min. 8N/cm <sup>2</sup>
Thermal Conductivity		0.05W/m. °C
Tensile Strength	ASTM 3574	Meets 21 psi min.
Ultimate Elongation	ASTM 3574	125% ±20%
Mildew Resistance		Excellent

## LIMITATIONS

- Joints must be sized by measuring every 5-7ft. (1.524 – 2.137 meters) to ensure gap opening is uniform and depth is sufficient for the supplied material.
- Do not install when substrate or ambient temperatures are below -14°F (-25°C) or above 95°F (35°C).
- Will not adhere to surfaces contaminated by oil or grease.
- If ambient storage temperatures are below 50°F (10°C), store material at a minimum of 68°F(20°C) for a minimum of 24 hours prior to installation, regardless of temperature at location of installation.
- Store material in a dry, enclosed area, off the ground, and out of direct sunlight. Do not install when raining or snowing.

## NOT INTENDED FOR

- Joints submerged in water
- Joints in contact with harsh chemicals
- Joints in roofing applications
- Joints requiring pick resistance
- Cross joints in copings and projecting stone work

## WARRANTY

Subject to certain limitations Schul warrants Polytite® 50N Expansion Joint against defects in material for a period of ten (10) years from the date of delivery, provided Schul limitations and project specific recommendations were followed.

## INSTALLATION

### PREPARATION

- Verify that the joint is clean, sound, and will provide an appropriate surface for installation of the joint sealant.
- Check material for the appropriate lengths, widths, and depths.
- Prepare the material for seams and proper lengths.
- Apply a 1/16" – 1/8" coating of the epoxy mixture to both sides of the joint to a depth of the sealant material plus 1/2".

### ROLL INSTALLATION

- When fully prepared to install, remove the outer lining surrounding the joint material and the first 1"-2" of material.
- Remove the white release liner as the material is installed in the joint.
- Allow material to expand before applying a layer of the supplied topcoat.

### STICK INSTALLATION

- When fully prepared to install, open the sealant material by removing the shrink packaging and masonite strapping.
- Remove the white release liner on both sides of the material.
- Insert the material into the joint while pressing the material to the side of the joint.

### CLEAN UP

- Remove any excess epoxy left on the surface of the material or substrate.
- Remove all waste materials from the jobsite.
- Do not reuse waste material.
- Leave site to the satisfaction of the owner/architect.



International Quality Registrars Corp.  
Quality System Registration

ISO 9001: 2008 Certified

For complete installation instructions and product information, contact Technical Support: 800 848 1120 or visit us on the web at [www.schul.com](http://www.schul.com)

Schul International Co., LLC ("the company") will refund the price of or replace, at its election, any product which it finds to be defective, provided the product has been properly used. Except as expressly stated above, the company does not make any warranty, expressed or implied, of any nature whatsoever with respect to the product or the use thereof. In no event shall the company be liable for delay caused by defects, for loss of material, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent. The foregoing is the full extent of the responsibility of the company even though the company may have been negligent.

**SCHUL INTERNATIONAL COMPANY, LLC ONE INDUSTRIAL DRIVE, PELHAM, NH 03076**